

Rock Island District Ordnance and Explosives (OE) Engineering

Time and Cost Benefits of a Range Assessment/ Archives Search Report

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Range Assessment/ Archives Search Report (ASR)

Outline

- Qualifications of the ASR Team
- Basic ASR Principles
- Report Organization
- Conclusions and Recommendations

Teamed w/Corps/Army/DOD Explosives Safety

- Corps Huntsville Engrg and Spt Ctr
 - Manage OE program and Center of Excellence and Design Center
- Corps Division Headquarters
 - Provide liaison between Rock Island District and Corps HQs
- Corps Military Support District
 - Manage OE projects as Military design district
- Corps Rock Island District
 - Support Huntsville and Military District's OE program
- U.S. Army Defense Ammo Ctr & School (USADACS)
 - Support Rock Island District w/explosives safety (co-located w/Rock Island)
- Army Medical Command (MEDCOM)
 - Support OE team with industrial hygiene (co-located w/Rock Island)

U.S. Army Defense Ammunition Center and School (USADACS)

Mission: Support Army Explosives Safety Program

- Ammunition Career Management
- Logistics Engineering
- U.S. Army Technical Ctr f/Explosives Safety (USATCES)
- Demil Technology
- Logistics Review
- Army Ammunition School

Specialized Ordnance Staff

- Safety and Occupational Health Specialists (former EODs)
- Quality Assurance Specialists (Ammunition Surveillance) (QASAS)
- Research Specialists
- Chemical Engineers
- Industrial Hygienist
- Civil/Environmental Engineers
- GIS Specialists
- Engineering (CADD/GIS) Technicians
- Engineering Aides
- Electrical Engineer (diver/ordnance locator specialist)

ASR Purposes

- Provide site characterization
- Verify FUDS eligibility/boundaries
- Determine OE presence on subsite basis
(Confirmed, Potential, Uncontaminated)
- Provide OE technical data
- Provide related HTRW and BD/DR considerations
- Provide recommended OE cleanup strategy

Final Report

- Findings
- Conclusions and Recommendations
- Appendices
- Reference Sources
- Drawings

Definitions of OE Contamination

- **Confirmed** = live OE/energetics onsite
(end items, components,
explosive soil)
- **Potential** = evidence of OE/nothing confirmed
- **Uncontaminated** = no OE evidence
(includes expended small arms)

Summary of Process

- **Records Search**
 - Government
 - Non-Government
- **Site Safety Plan**
 - Initial Hazards
 - Emergency contacts
- **Site Inspection**
 - Site dynamics/interviews
 - Visual inspection/identification/mapping
- **Final Report**
 - Records evaluations
 - Site inspection
 - OE analyses
 - Conclusions and recommendations

Types of OE Analyses

- Production/Manufacturing
 - Process analyses
 - Building usage
 - Waste Streams
 - Decontamination procedures
- Usage (Army, Navy, Air Force)
 - Range fans
 - Maneuver areas/uses
 - Bomb target hazard zones
 - Trajectory analyses
 - Military unit/mission analyses
 - Delivery weapon analyses
- Storage
 - Storage Practice
 - Reconditioning practice
- Disposal
 - Burn pits
 - Demolition ranges
 - Burial Pits

Summary of Conclusions

Site Name

Area: X

Size: Y Acres

- **Land Usage**
 - Former military usage, present usage, future probable end usage
- **Eligibility**
 - Confirmed FUDS or IR, Potential FUDS or IR
- **Ordnance Presence**
 - Confirmed, Potential, Uncontaminated
- **Risk Assessment Code**
 - 1 (imminent hazard threat); 2, 3, 4, or 5 (uncontaminated)

Summary of Recommended Strategy Issues

- **Rights of entry**

Landowner will assist w/community relations

Landowner has been very reluctant to participate
Must coordinate work during nongrowing season

- **OE Detection Sweeps**

Heavy brush will influence sweeps

Terrain is very slippery after heavy rains
Soil is mixture of clay and stone rubble
Endangered plant life onsite

- **OE Disposal**

Onsite destruction must consider nearby housing
Site is heavily used by the public

Rock Island District Ordnance and Explosives Engineering

- **Ordnance Engineering Experts**
100 years of EOD expertise
300 years of Army, Navy, Air Force ammunition experience
- **Partner with COE/Army/DOD OE Assets**
Huntsville Engineering and Support Center
USADACS/IOC/AMC/DDESB
- **Fully Trained and Equipped**
PA, SI, EE/CA, RD, RA
Magnetometers, GPS, other field equipment
CADD/GIS/Internet OE Anchor

Summary of Recommendations

Site Name

Area: X

Size: Y Acres

- Preliminary Assessment Actions
 - Amend or prepare INPR or other PA documents
- OE Actions
 - NOFA, IRA, EECA
- HTRW Actions
 - Perform SI
- BD/DR Actions
 - Evaluate the hazard